

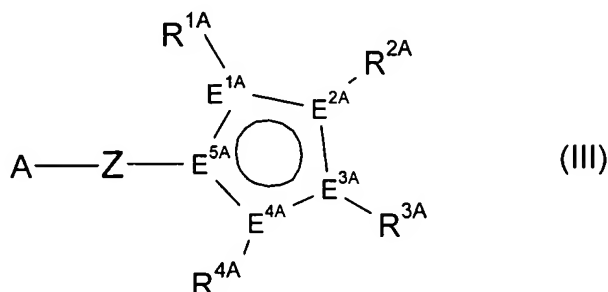


ATTACHMENT A

Claims 1 – 12: (Cancelled)

13. (Currently Amended) A monocyclopentadienyl complex comprising formula  $\text{Cp-Z-A-M}^{\text{A}}$  (II),  
where:

$\text{Cp-Z-A}$  is



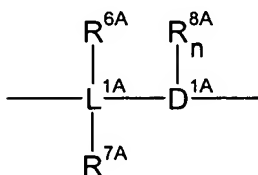
where:

$\text{E}^{1\text{A}}\text{-E}^{5\text{A}}$  are each carbon;

$\text{R}^{1\text{A}}\text{-R}^{4\text{A}}$  are each, independently of one another, hydrogen, a  $\text{C}_1\text{-C}_{22}$ -alkyl, a  $\text{C}_2\text{-C}_{22}$ -alkenyl, a  $\text{C}_6\text{-C}_{22}$ -aryl, an arylalkyl comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, or  $\text{SiR}^{5\text{A}}_3$ , where  $\text{R}^{1\text{A}}\text{-R}^{4\text{A}}$  optionally can be substituted by at least one halogen and two vicinal  $\text{R}^{1\text{A}}\text{-R}^{4\text{A}}$  optionally can be joined to form a five-, six- or seven-membered ring;

$\text{R}^{5\text{A}}$  are each, independently of one another, hydrogen, a  $\text{C}_1\text{-C}_{20}$ -alkyl, a  $\text{C}_2\text{-C}_{20}$ -alkenyl, a  $\text{C}_6\text{-C}_{20}$ -aryl, an arylalkyl comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, or two geminal  $\text{R}^{5\text{A}}$  optionally can be joined to form a five- or six-membered ring;

$\text{Z}$  is a divalent bridge between A and Cp and is



where

$L^{1A}$  is carbon, silicon or germanium;

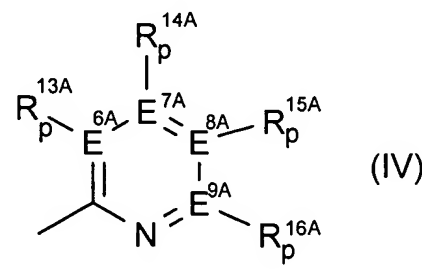
$D^{1A}$  is an atom of group 15 or 16 of the Periodic Table of Elements;

$n$  is 0 when  $D^{1A}$  is an atom of group 16, and is 1 when  $D^{1A}$  is an atom of group 15;

$R^{6A}$ - $R^{8A}$  are each, independently of one another, hydrogen, a  $C_1$ - $C_{20}$ -alkyl, a  $C_2$ - $C_{20}$ -alkenyl, a  $C_6$ - $C_{20}$ -aryl, an arylalkyl comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, or  $SiR^{9A}_3$ , where  $R^{6A}$ - $R^{8A}$  optionally can be substituted by at least one halogen and two geminal or vicinal  $R^{6A}$ - $R^{8A}$  optionally can be joined to form a five- or six-membered ring;

$R^{9A}$  are each, independently of one another, hydrogen, a  $C_1$ - $C_{20}$ -alkyl, a  $C_2$ - $C_{20}$ -alkenyl, a  $C_6$ - $C_{20}$ -aryl or an arylalkyl comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, a  $C_1$ - $C_{10}$ -alkoxy or a  $C_6$ - $C_{10}$ -aryloxy, or two  $R^{9A}$  optionally can be joined to form a five- or six-membered ring;

~~A is an uncharged donor group comprising at least one atom of group 15 and/or 16 of the Periodic Table of Elements and is an unsubstituted, substituted or fused, heteroaromatic ring system or a carbene; and comprises formula (IV):~~



where

$E^{6A}$ - $E^{9A}$  are each, independently of one another, carbon, or nitrogen;

$R^{13A}$ - $R^{16A}$  are each, independently of one another, hydrogen, a  $C_1$ - $C_{20}$ -alkyl, a  $C_2$ - $C_{20}$ -alkenyl, a  $C_6$ - $C_{20}$ -aryl, an arylalkyl comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, or  $SiR^{17A}_3$ , where  $R^{13A}$ - $R^{16A}$  optionally can be substituted by at least one halogen or nitrogen, or two vicinal

R<sup>13A</sup>-R<sup>16A</sup> or R<sup>13A</sup> and Z optionally can be joined to form a five- or six-membered ring;

R<sup>17A</sup> are each, independently of one another, hydrogen, a C<sub>1</sub>-C<sub>20</sub>-alkyl, a C<sub>2</sub>-C<sub>20</sub>-alkenyl, a C<sub>6</sub>-C<sub>20</sub>-aryl or an arylalkyl comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, or two R<sup>17A</sup> optionally can be joined to form a five- or six-membered ring;

p is 0 when E<sup>6A</sup>-E<sup>9A</sup> is nitrogen, and is 1 when E<sup>6A</sup>-E<sup>9A</sup> is carbon; and

M<sup>A</sup> is chromium, molybdenum, or tungsten.

14. (Previously Presented) The monocyclopentadienyl complex as claimed in claim 13, wherein L<sup>1A</sup> is silicon.

15. (Previously Presented) The monocyclopentadienyl complex as claimed in claim 13, wherein D<sup>1A</sup> is oxygen, sulfur, nitrogen, or phosphorus.

Claims 16 – 18: (Cancelled)

19. (Previously Presented) The monocyclopentadienyl complex as claimed in claim 13, wherein – Z- is -SiR<sup>6A</sup>R<sup>7A</sup>-O-.

20. (Cancelled)

21. (Previously Presented) A catalyst system for olefin polymerization comprising:

- A) at least one monocyclopentadienyl complex as claimed in claim 13;
- B) optionally, an organic or inorganic support;
- C) optionally, one or more activating compounds;
- D) optionally, further catalysts suitable for olefin polymerization; and
- E) optionally, one or more metal compounds comprising a metal of group 1, 2 or 13 of the Periodic Table of Elements.

Claims 22 – 24: (Cancelled)

25. (Previously Presented) A process for preparing polyolefins by polymerization or copolymerization of olefins in presence of the catalyst system as claimed in claim 21.

26. (Cancelled)